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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-29-39 **Date: 08/11/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02

Agency : Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-11-18

Sample ID No : 2018-10-29-39 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/11/2018	08/11/2018	149.77 X 151.37 X 151.35	22671	7.979	415.0	18.3	18.3
2	PCC	M20	01/11/2018	08/11/2018	149.74 X 149.68 X 151.99	22413	8.238	413.4	18.4	
3	PCC	M20	01/11/2018	08/11/2018	151.70 X 149.83 X 150.07	22728	8.336	415.8	18.3	

Note:

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-29-39** **Date: 29/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-18
Sample ID No	:	2018-10-29-39 /05
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/11/2018	29/11/2018	150.32 X 150.34 X 150.42	22599	8.312	533.3	23.6	23.3
2	PCC	M20	01/11/2018	29/11/2018	150.42 X 150.45 X 150.26	22631	8.331	506.9	22.4	
3	PCC	M20	01/11/2018	29/11/2018	150.26 X 150.43 X 150.35	22604	8.345	538.0	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/11/2018

Lab ID	:	CP-2018-10-29-39
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-18
Sample ID No	:	2018-10-29-39 /03
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/11/2018	08/11/2018	149.66 X 149.06 X 150.98	22308	8.326	414.5	18.6	18.5
2	PCC	M20	01/11/2018	08/11/2018	150.67 X 150.14 X 149.61	22622	8.498	413.9	18.3	
3	PCC	M20	01/11/2018	08/11/2018	149.40 X 151.94 X 150.98	22699	8.417	423.6	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2018

Lab ID	:	CP-2018-10-29-39
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-18
Sample ID No	:	2018-10-29-39 /03
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/11/2018	29/11/2018	150.32 X 150.36 X 150.42	22602	8.312	540.2	23.9	23.3
2	PCC	M20	01/11/2018	29/11/2018	150.45 X 150.42 X 150.32	22631	8.331	506.9	22.4	
3	PCC	M20	01/11/2018	29/11/2018	150.42 X 150.43 X 150.35	22628	8.345	534.0	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-29-39** **Date: 08/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-11-18
Sample ID No	:	2018-11-05-39 /04
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/11/2018	08/11/2018	149.65 X 151.61 X 151.76	22688	8.348	429.3	18.9	18.6
2	PCC	M20	01/11/2018	08/11/2018	150.73 X 151.43 X 150.13	22825	7.977	411.9	18.0	
3	PCC	M20	01/11/2018	08/11/2018	150.47 X 151.16 X 150.13	22744	8.389	428.5	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-29-39** **Date: 29/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-18
Sample ID No	:	2018-10-29-39 /04
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/11/2018	29/11/2018	150.36 X 150.42 X 150.46	22617	8.312	529.2	23.4	23.2
2	PCC	M20	01/11/2018	29/11/2018	150.46 X 150.42 X 150.32	22632	8.331	509.2	22.5	
3	PCC	M20	01/11/2018	29/11/2018	150.32 X 150.35 X 150.35	22601	8.345	535.6	23.7	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-10-29-39** **Date: 02-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP,
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri Bhaskar K, No.273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-10-29-39 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	30-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.8	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.0	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	0.285	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.4 mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-10-29-39 **Date: 06-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no 02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-10-29-39 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	30-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-10-29-39** **Date: 31-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-10-29-39 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	280	280	1.9	98.1	90-100
3	20 mm	5289	5569	37.1	62.9	30-70
4	10 mm	4700	10269	68.5	31.5	10-35
5	4.75 mm	4190	14459	96.4	3.6	0-5
6	Pan	541	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-10-29-39** **Date: 31-10-18**

Sample ID No : 2018-10-29-39 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2018-10-29-39 **Date: 31-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-10-29-39 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	318	318	6.4	93.6	90-100
3	10 mm	2852	3170	63.4	36.6	25-55
4	4.75 mm	1622	4792	95.8	4.2	0-10
5	Pan	208	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-10-29-39** **Date: 31-10-18**

Sample ID No : 2018-10-29-39 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.45	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 31-10-18

Lab ID	:	CP-2018-10-29-39
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-10-29-39 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	29-10-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	57	57	5.7	94.3	90-100	90-100	90-100	95-100
3	2.36 mm	129	186	18.6	81.4	60-95	75-100	85-100	95-100
4	1.18 mm	219	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	203	608	60.8	39.2	15-34	35-59	60-79	80-100
6	300 micron	179	787	78.7	21.3	5-20	8-30	12-40	15-50
7	150 micron	149	936	93.6	6.4	0-10	0-10	0-10	0-15
8	Pan	64	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Date: 31-10-18

Lab ID : CP-2018-10-29-39

Sample ID No : 2018-10-29-39 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.46	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-10-29-39** **Date: 31-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-10-29-39 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	30-10-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	653	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	527	673	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	543	669	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 03-11-18

Lab ID	:	**CP-2018-10-29-39**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-10-29-39 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	30/10/2018

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-29-39** **Date: 08/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-18
Sample ID No	:	2018-10-29-39 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/11/2018	08/11/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	
2	PCC	M20	01/11/2018	08/11/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	17.2
3	PCC	M20	01/11/2018	08/11/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2018

Lab ID	:	CP-2018-10-29-39
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-18
Sample ID No	:	2018-10-29-39 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/11/2018	29/11/2018	150.32 X 150.34 X 150.42	22599	8.312	537.9	23.8	23.5
2	PCC	M20	01/11/2018	29/11/2018	150.35 X 150.36 X 150.32	22607	8.331	517.7	22.9	
3	PCC	M20	01/11/2018	29/11/2018	150.42 X 150.43 X 150.35	22628	8.345	536.3	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/11/2018

Lab ID	:	CP-2018-10-29-39
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-18
Sample ID No	:	2018-10-29-39 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/11/2018	08/11/2018	151.64 X 149.55 X 149.83	22678	8.002	415.3	18.3	18.2
2	PCC	M20	01/11/2018	08/11/2018	149.63 X 150.97 X 151.94	22590	8.431	410.6	18.2	
3	PCC	M20	01/11/2018	08/11/2018	150.39 X 149.33 X 149.75	22458	7.973	405.2	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2018

Lab ID	:	CP-2018-10-29-39
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and drains at Prakruthi layout in Kenchenahalli village in Ward no-02
Agency	:	Sri.Bhaskar.K, No:273,Sumagali Seva Ashrama Road Hebbal, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-18
Sample ID No	:	2018-10-29-39 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/11/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	01/11/2018	29/11/2018	150.34 X 150.36 X 150.32	22605	8.312	524.4	23.2	23.1
2	PCC	M20	01/11/2018	29/11/2018	150.42 X 150.41 X 150.36	22625	8.331	506.8	22.4	
3	PCC	M20	01/11/2018	29/11/2018	150.43 X 150.43 X 150.36	22629	8.345	534.0	23.6	

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